

Title (en)  
COOLING OF AN ELECTRIC MACHINE

Title (de)  
KÜHLUNG EINER ELEKTRISCHEN MASCHINE

Title (fr)  
REFROIDISSEMENT D'UNE MACHINE ÉLECTRIQUE

Publication  
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Application  
**EP 15702665 A 20150121**

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Abstract (en)  
[origin: WO2015124360A2] The invention relates to an electric machine, comprising a first cooling section (1), in which a first cooling medium for cooling the electric machine is provided, and a second cooling section (2), in which a second cooling medium is provided. In order to provide an alternative to known cooling systems for electric machines, the electric machine according to the invention has at least one active part (3) and at least one heat transport element (4) comprising a magnetocaloric material, wherein a magnetic field (5) can be applied to the at least one heat transport element (4) at least partially and/or at least temporarily by means of the at least one active part (3), wherein the at least one active part (3) and the at least one heat transport element (4) are designed in such a way that waste heat can be transferred from the first cooling medium to the second cooling medium by using the magnetocaloric effect.

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